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L26  ANSWER 31 OF 99  MARPAT  COPYRIGHT 2005 ACS on STN DUPLICATE 6
AN   139:117423  MARPAT Full-text
TI   Preparation of cyclic urea derivatives with 5-HT2c receptor activity
IN   Bromidge, Steven Mark; Lovell, Peter John; Goodacre, Caroline
PA   Glaxo Group Limited, UK
SO   PCT Int. Appl., 36 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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PI   WO 2003057220      A1   20030717      WO 2003-GB20     20030107
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
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             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
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             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1465630        A1   20041013      EP 2003-700335   20030107
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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PRAI GB 2002-283       20020108
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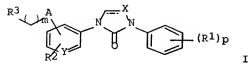
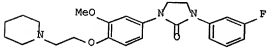
GI



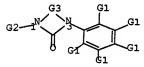
I



II

AB Title compds. I [p = 0-5; m = 1-3; Y = N, C; A = O, N, CONH, NHCO, etc.; R1 = halo, alkyl, alkoxy, alkylthio, etc.; R2 = H, halo, alkyl, alkoxy, haloalkyl, haloalkoxy; R3 = amino; X = CH2, CO] are prepared For instance, 2-(3-fluorophenylamino)ethanol (preparation given) is reacted with MsCl/CH2Cl2 followed by 3-benzyloxy-4-methoxyphenylamine to give the corresponding substituted diamine. This intermediate is treated with phosgene to give 1-(3-benzyloxy-4-methoxyphenyl)-3-(3-fluorophenyl)imidazolidin-2-one. Substitution of this using 1-(2-chloroethyl)piperidine•HCl (MeOCH2CH2OMe, K2CO3, reflux, 5 h) afforded II. I exhibit 5-HT2c receptor activity and are useful for the treatment of CNS disorders such as depression or anxiety.

MSTR 1



G1 = CN / CF3
G3 = 45-1 46-3

G10 = C(O)
MPL: claim 1